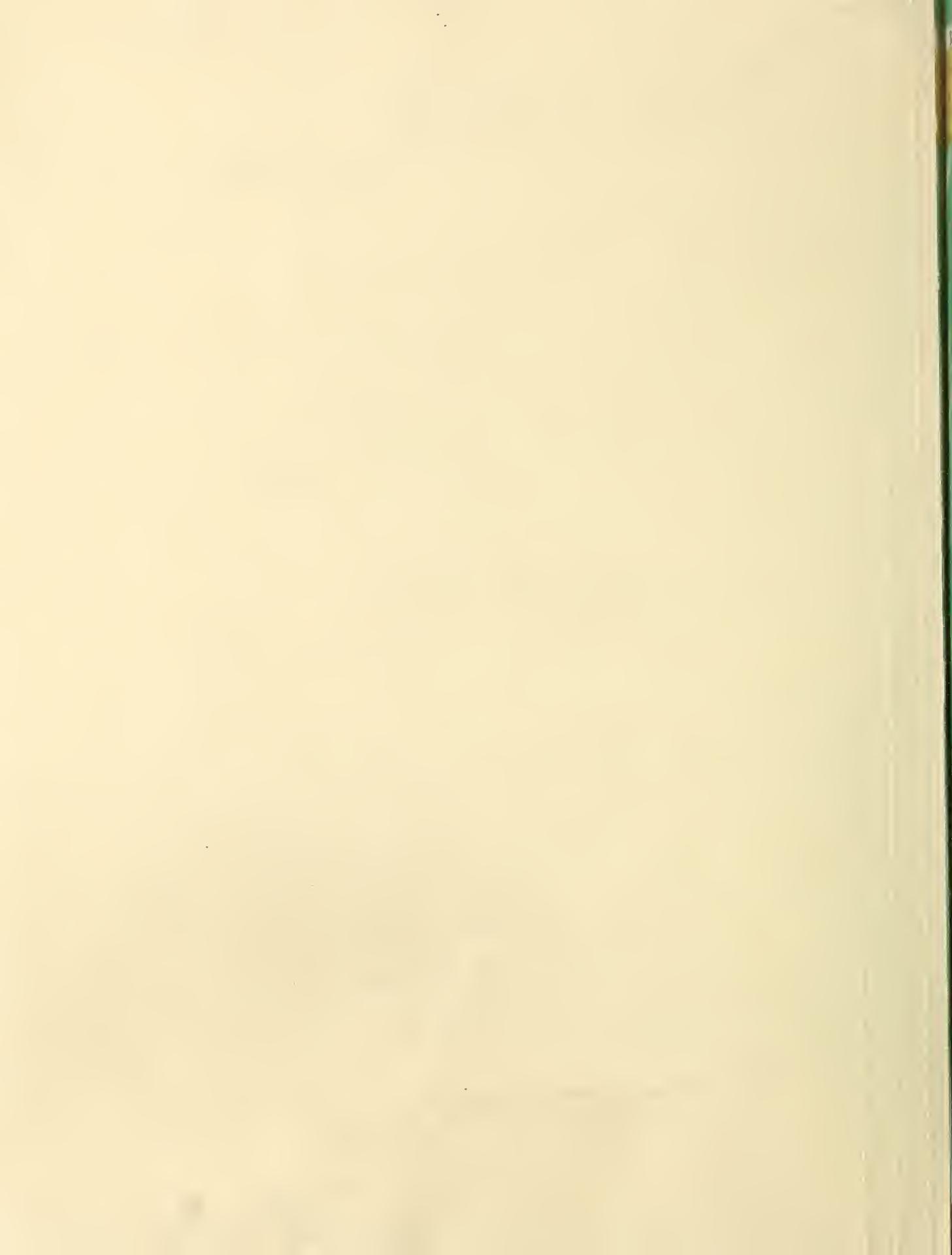


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# TURKEY performance tests 1959



AGRICULTURAL RESEARCH SERVICE  
U. S. DEPARTMENT OF AGRICULTURE

Information in this report was compiled by the Animal Husbandry Research Division,  
Agricultural Research Service, from data supplied by the Test Supervisors  
and analyzed by Biometrical Services, ARS

## FOREWORD

The National Turkey Improvement Plan provides for three types of tests through which the performance of a representative sample of the entrant's stock is measured. The tests are: (1) Turkey Reproduction Test, (2) Central Turkey Meat Production Test, and (3) On-the-Farm Turkey Meat Production Test. The detailed provisions for these tests are contained in USDA Miscellaneous Publication 739. Copies of this publication may be obtained from Official State Agencies for the National Turkey Improvement Plan or by writing directly to the Animal Husbandry Research Division, Agricultural Research Center, Beltsville, Maryland.

The Plan provides that the results of the tests reported to the AH Division by December 1 shall be published in a national summary alphabetically by test and entries. This publication contains the results of the 1959 Central Turkey Meat Production Tests conducted in Kansas, Minnesota, Nebraska, North Dakota, Pennsylvania and Texas, as submitted by the supervising agencies.

### Evaluation of Results

In the evaluation of the results, no direct comparison should be made between entries in different tests. While the same general procedure was followed in all tests, there were differences, as illustrated by the explanation of feed conversion ratios. There were also variations in the ages of the birds at the time the tests were terminated. Because of these variations and the unavoidable differences between tests in measuring techniques and the application of grading standards, comparisons of results reported in this summary should be made only between entries within a test.

In comparing entries, the possibility of differences being due to chance alone should be recognized. Obviously, small differences may be due to chance rather than to a genetic difference in the stocks tested. However, differences should not be ignored solely because they are small nor should larger differences be accepted as signifying genetic differences because they are large.

It would be difficult to determine precisely what part of the difference between two entries was due to a true genetic difference in the stocks and that which was due to chance alone. Statistical procedures may be applied to test data which will indicate the probability of similar differences occurring in subsequent tests. The NTIP provides that one of these procedures, such as Duncan's Multiple Range Test, be applied to central turkey meat production tests and the results included in the national summary.

### Statistical Significance of Differences

In applying Duncan's Multiple Range Test, the weights and measurements of each entry are compared to those of each other entry. The differences occurring are tested to determine whether they are statistically significant. The results of the statistical analysis are reported in a line chart which was prepared as follows: (1) For each test and for each trait measured, the entry numbers (shown with the entrant's name in the tables of results) were arranged with the entry having the largest weight or measurement on the left and in descending order to the smallest on the right; (2) A line (underscore) was then drawn under the first entry number and was extended under the number of each entry which did not differ significantly from the first entry; (3) This procedure was followed for each entry in the test.

In the completed chart, those entries whose numbers are underscored by a common line are not significantly different. For example, in the following illustration, entry No. 3 was the largest but not statistically different from entries 5 and 2. Entry 5 was not significantly different from 3, 2, 4 or 9 but was significantly larger than 10, 8, 7, 1 and 6. Entry 6 was the smallest but was not significantly smaller than 7 or 1.

Entry No. 3 5 2 4 9 10 8 7 1 6

## Explanation of Terms and Abbreviations

Entrant: In the tables of results of the Central Turkey Meat Production Tests only the abbreviated names of the entrants and the State in which they are located are given. The complete names and addresses of all entrants appear on page 5.

### Kind of Stock:

#### Variety Names -

BBB	-	Broad Breasted Bronze	BBWH	-	Broad Breasted White
BBLW	-	Broad Breasted Large White	LW	-	Holland
BBW	-	Broad Breasted White			Large White
BW	-	Broad White			

#### Kind of Flocks Represented -

BR	-	Breeder Replacement Flocks
SF	-	Supply Flock

### Strain or Trade Name:

S. C.	-	Strain Cross
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### Mating Procedure:

Nat.	-	Natural mating
Art.	-	Artificial Insemination
Both	-	Natural mating, supplemented with artificial insemination

### Feed Conversion Ratio:

The figures reported by the Kansas, Pennsylvania and Texas tests represent the pounds of feed required to produce one pound of live turkey.

In the Pennsylvania test the entries were intermingled until eight weeks of age. During this period, feed consumption was recorded and subsequently computed for each entry on a pro-rata basis. From eight weeks to the end of the test, the entries were separated and feed consumption recorded for each entry. The reported feed conversion ratio is based on the computed consumption for the first 8 weeks and the recorded consumption for the remainder of the test.

In the Kansas test the entries were intermingled for the first 8 weeks. At this time 50 birds, 25 of each sex, were selected at random from each entry and were separated by entries for the remainder of the test. The feed conversion ratios reported are based on the feed consumption and weight gains of the birds in these groups from 8 weeks of age to the end of the test.

In the Texas test the birds were separated by sexes throughout the test but entries were intermingled for the first 4 weeks. After 4 weeks the entries were separated and feed consumption recorded for each entry by sexes. The reported ration is based on feed consumption by entries and the computed consumption for the first 4 weeks.

Eviscerated Weight: The weight of the fully dressed birds, including the necks and giblets.

Dressing Percentage: The eviscerated weight expressed as a percentage of the live weight.

Body Measurements: The measurements reported were made on the New York Dressed birds, except in the Minnesota test where the measurements were made on the live birds and in the Pennsylvania test where the hens were measured after evisceration and chilling.

Percent of Birds with Defects: A provision for including in this report "The percentage of birds with the following defects: Pendulous crop, roach back, leg weakness and breast blisters" was adopted after the 1959 tests were underway and some tests were unable to obtain records on these traits. Other tests had already adopted procedures for obtaining the necessary records and complete reports of defects are included.

## 1959 CENTRAL TURKEY MEAT PRODUCTION TESTS

## Supervisors

Kansas - Harry J. Reed, Kansas Poultry Association, P.O. Box 663, Manhattan  
 Minnesota - Roy C. Munson, Dept. of Agriculture, 1246 University Ave., St. Paul 4E  
 Nebraska - John L. Skinner, Extension Poultryman, University of Nebraska, Lincoln 3  
 North Dakota - David Dickens, N. D. Poultry Improvement Board, State Capitol, Bismarck  
 Pennsylvania - Charles W. Dorsey, Poultry Division, Dept. of Agriculture, Harrisburg  
 Texas - George H. Draper, Supervisor, NTIP, Texas A & M College, College Station

## Participants

Name and Address	Page
Anderson Turkey Farm, Belchertown, Massachusetts . . . . .	14-18-20
Anderson Turkey Hatchery, Frazee, Minnesota . . . . .	8
Barnett's Inc., Marlin, Texas . . . . .	20
Brady Turkey Hatchery, Paola, Kansas . . . . .	6
Browning Turkey Farms, Winchester, Kentucky . . . . .	8-12-14-18-20
Burlington Hatchery, Burlington, Kansas . . . . .	6
Central Kansas Hatchery, Moundridge, Kansas . . . . .	6
Central Missouri Turkey Hatchery, Eldon, Missouri . . . . .	12-20
Dietzel Turkey Hatchery, Atchison, Kansas . . . . .	6
Elwell Enterprises, Wayzata, Minnesota . . . . .	8
Farmers Hatchery Co., Wadena, Minnesota . . . . .	8-14
Gibbon Turkey Hatchery, Shelton, Nebraska . . . . .	12
Gozzi's Breeding Farms, Inc., Guilford, Connecticut . . . . .	8-12-14-18-20
Hart's Hatchery, Inc., P.O. Box 749, McMinnville, Oregon . . . . .	12-20
Henning Hatchery, Henning, Minnesota . . . . .	8
Hildebrand Turkey Hatchery, Seward, Nebraska . . . . .	12
Hilltop Turkey Hatchery, McPherson, Kansas . . . . .	6
Janes' Bar Nothing Ranch, Inc., Austin, Texas . . . . .	12-20
Janssen Farms Hatcheries, Zeeland, Michigan . . . . .	12
Kehl Turkey Farm, Columbus, Wisconsin . . . . .	8
Kent Turkey Hatchery, Johnson City, Texas . . . . .	20
Kimber Turkey Breeding Farm, Inc., P.O. Box 8, Niles, California . . . . .	8-20
Lake's Silver Dollar Turkey Hatchery, Marysville, Kansas . . . . .	6
Land O'Lakes Creameries, Inc., Minneapolis 13, Minnesota . . . . .	8-14
Loomis Hatchery, Box 604, Hemet, California . . . . .	12
Lyon's Turkeys (H. B. Davis), McMinnville, Oregon . . . . .	14
Manhattan Hatchery, Manhattan, Kansas . . . . .	6
Martin, Raymond C., Pinola Hatchery, RD #3, Shippensburg, Pennsylvania . . . . .	18
Meadowbrook Turkey Farms, Loomis, California . . . . .	18-20
Menefee Turkey Ranch, P.O. Box 363, McMinnville, Oregon . . . . .	12-18-20
Miller Hatcheries, Ltd., 260 Main St., Winnipeg, Manitoba, Canada . . . . .	12-18
Nicholas Turkey Breeding Farms, P.O. Building, Sonoma, California . . . . .	8-12-14-18-20
Nichols Inc., 24 Front St., Exeter, New Hampshire . . . . .	12
Nokota Hatchery, Devils Lake, North Dakota . . . . .	14
Norbest Turkey Growers Association, Salt Lake City, Utah . . . . .	12
Northern Turkey Hatcheries, Frazee, Minnesota . . . . .	8
Ohio Agricultural Experiment Station, Wooster, Ohio . . . . .	6-12-18
Oppy's Hatcheries, Wyndmere, North Dakota . . . . .	14
Palmateer's Turkey Farm, Elverson, Pennsylvania . . . . .	18
Pinetree Turkey Hatchery, Farmington, Minnesota . . . . .	8
River Rest Turkey Sales, Inc., Shawnee, Oklahoma . . . . .	20
Segar Turkey Breeding Ranch, P.O. Box 1008, Turlock, California . . . . .	12-14-20
Shaw, Glenn F., RD #2, Amherst, Massachusetts . . . . .	18
Shearer, Robert K., RD #1, Reinhards, Pennsylvania . . . . .	18
Shelhamer, Glen A., Fairport, New York . . . . .	18
Stants, L. B., Hatchery, Abilene, Kansas . . . . .	6
Swift & Company, Detroit Lakes, Minnesota . . . . .	14
Thompson, J. N., Hatchery, Pottsville, Arkansas . . . . .	18-20
Turkey Growers Cooperative of Central California, Selma, California . . . . .	12
Wallis Turkey Farm, Cuero, Texas . . . . .	20
Washore Turkey Association, Portland, Oregon . . . . .	14
Wila Turkey Ranch, Wila, Pennsylvania . . . . .	18
Wilford, Harvey M., Box 185, Elyria, Ohio . . . . .	18-20

KANSAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION RATIO *
					2 WEEKS	8 WEEKS	END OF TEST		8 WKS	12 WKS	20 WEEKS	22 WEEKS	24 WEEKS	26 WEEKS	
1. Brady, Kansas	BBB BR	Nicholas	Both	12,800			4.0	Toms Hens	4.4 3.8	8.3 6.9	17.4 12.7	20.2 14.2	22.6	26.2	4.16
2. Brady, Kansas	BBLW BR	Nicholas	Both	8,000	Not reported		2.0	Toms Hens	4.9 3.8	9.1 7.1	18.0 12.6	21.4 14.4	23.8	26.8	4.37
3. Burlington, Kansas	BBB SF	Rose-A-Linda	Both	12,000			8.0	Toms Hens	4.5 3.7	8.6 7.0	18.3 12.9	21.5 14.3	23.7	27.1	4.14
4. Cent. Kans. Kansas	BBB SF	Loomis Mtn. Val.	Both	1,050			6.0	Toms Hens	4.7 3.9	8.8 7.1	17.4 11.9	20.4 13.3	23.3	27.0	4.44
5. Cent. Kans. Kansas	BBB SF	Loomis Mtn. Val.	Both	1,780			6.0	Toms Hens	4.3 3.7	8.1 6.7	17.3 12.4	20.6 13.8	23.2	27.3	4.16
6. Dietzel, Kansas	BBB SF	Waite's King Size	Nat.	23,000			2.0	Toms Hens	4.6 3.8	8.7 6.9	17.5 11.9	20.9 13.9	22.9	27.2	4.27
7. Hilltop, Kansas	BBB SF	Schmidt	Nat.	1,050			6.0	Toms Hens	4.3 3.4	8.1 6.4	17.2 11.7	20.4 13.4	23.0	26.1	4.22
8. Lake, Kansas	BBB SF	Lake	Both	1,200			6.0	Toms Hens	4.4 3.7	8.3 6.8	17.3 12.4	20.6 13.8	23.1	26.1	4.18
9. Manhattan, Kansas	BBB SF	Loomis Mtn. Val.	Both	700			4.0	Toms Hens	4.5 3.6	8.6 6.6	17.4 11.5	20.5 13.2	23.3	26.8	4.28
10. Manhattan, Kansas	BW SF	Wilford White	Both	780			6.0	Toms Hens	4.3 3.4	8.0 6.1	16.3 11.0	18.8 12.1	21.2	23.7	4.73
11. Stant's, Kansas	BBLW BR	Segar's White	Art.	12,000			4.0	Toms Hens	4.7 3.7	8.6 6.8	17.6 12.0	20.7 13.6	23.3	26.8	4.44
12. Ohio Exp. Sta., Ohio	LW Control	Random-bred	Art.				4.0	Toms Hens	4.1 3.2	7.5 5.8	15.8 10.4	18.4 11.7	21.0	23.1	4.33
Average All Entries							4.8	Toms Hens	4.5 3.6	8.4 6.7	17.3 12.0	20.4 13.5	22.9	26.3	4.31
Average Bronze Entries							5.2	Toms Hens	4.5 3.7	8.4 6.8	17.5 12.2	20.6 13.7	23.1	26.7	4.23
Average White Entries							4.0	Toms Hens	4.5 3.5	8.3 6.5	16.9 11.5	19.8 13.1	22.3	25.3	4.47

Statistical Significance of Differences Between Entries

Final Live Weight

Entry No.	Toms											
	5	6	3	4	11	9	2	1	8	7	10	12

Hens

Entry No.	Hens											
	2	3	1	6	5	8	11	7	4	9	10	12

Eviscerated Weight

Entry No.	Toms											
	3	6	5	4	9	11	2	7	1	8	10	12

Hens

Entry No.	Hens											
	3	2	1	6	5	8	7	11	4	9	10	12

Dressing Percentage

Entry No.	Toms											
	7	3	4	9	6	8	1	11	12	2	5	10

Hens

Entry No.	Hens											
	7	10	4	3	12	9	1	8	5	2	11	6

KANSAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

EVISCERATED		BREAST WIDTH (inches)	BODY DEPTH (inches)	KEEL LENGTH (inches)	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT (lbs.)	YIELD (%)				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
20.4 11.9	77.8 83.8	4.1 3.7	9.2 7.0	7.5 6.1	76.2 98.0	11.9 2.0	11.9 --	100.0 100.0	95.2 98.0	100.0 100.0					1. Brady
20.7 12.1	77.2 83.5	4.2 3.8	8.9 6.9	7.4 6.1	81.8 98.0	2.3 2.0	15.9 --	97.7 98.0	100.0 98.0	100.0 100.0					2. Brady
21.3 12.1	78.4 84.4	4.8 4.0	8.6 6.8	7.4 6.0	80.0 100.0	4.0 --	16.0 --	98.0 100.0	100.0 100.0	100.0 100.0					3. Burlington
21.1 11.2	78.0 84.4	4.2 3.6	9.1 7.0	7.8 6.2	95.3 100.0	4.7 --	-- --	97.7 100.0	100.0 100.0	100.0 100.0					4. Cent. Kans.
21.1 11.5	77.2 83.5	3.9 3.5	9.2 7.0	7.7 6.2	93.8 97.6	6.2 2.4	-- --	97.9 100.0	100.0 100.0	100.0 100.0					5. Cent. Kans.
21.2 11.6	77.9 83.5	3.7 3.3	9.4 7.2	8.0 6.4	76.2 94.2	7.1 5.8	16.7 --	95.2 96.2	100.0 98.1	100.0 100.0					6. Dietzel
20.6 11.4	78.9 85.1	4.2 3.7	8.9 6.9	7.4 6.0	95.6 97.9	2.2 2.1	2.2 --	97.8 100.0	100.0 97.9	100.0 100.0					7. Hilltop
20.4 11.5	77.9 83.8	3.9 3.5	9.1 7.0	7.6 6.1	93.3 100.0	4.5 --	2.2 --	97.8 100.0	100.0 100.0	100.0 100.0					8. Lake
20.9 11.1	77.9 83.8	4.1 3.6	9.1 6.9	7.6 6.1	92.5 93.2	5.0 6.8	2.5 --	100.0 97.7	100.0 95.5	100.0 100.0					9. Manhattan
18.3 10.3	77.1 85.1	4.0 3.5	8.7 6.6	7.3 5.9	93.6 100.0	-- --	6.4 --	100.0 100.0	100.0 100.0	100.0 100.0					10. Manhattan
20.7 11.4	77.3 83.5	4.0 3.6	9.1 7.0	7.6 6.0	88.4 98.0	4.6 2.0	7.0 --	97.7 98.0	100.0 100.0	100.0 100.0					11. Stant's
17.9 9.8	77.2 83.9	3.7 3.2	8.8 6.7	7.3 5.8	92.6 100.0	-- --	7.4 --	100.0 100.0	100.0 100.0	100.0 100.0					12. Ohio Exp. Sta.
20.4 11.4	77.8 84.0	4.1 3.6	9.0 6.9	7.6 6.1	88.2 98.0	4.4 2.0	7.4 --	98.3 99.1	99.6 98.9	100.0 100.0					Average All Entries
20.9 11.5	78.0 84.0	4.1 3.6	9.1 7.0	7.6 6.1	87.9 97.6	5.6 2.4	6.5 --	98.0 99.2	99.4 98.6	100.0 100.0					Average B. Entries
19.5 11.0	77.2 84.0	4.0 3.6	8.9 6.8	7.4 6.0	88.8 98.9	1.9 1.1	9.3 --	98.8 98.9	100.0 99.4	100.0 100.0					Average W. Entries

Statistical Significance of Differences Between Entries

Breast Width														
Toms		3	2	4	7	9	1	10	11	5	8	6	12	
Entry No.														

Body Depth														
Hens		3	2	1	7	4	11	9	10	5	8	6	12	
Entry No.														

Keel Length														
Toms		6	5	1	4	11	9	8	2	7	3	2	12	10
Entry No.														

Keel Length														
Hens		6	4	5	8	1	2	9	3	7	11	10	12	10
Entry No.														

## MINNESOTA CENTRAL RANDOM SAMPLE TURKEY TEST

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION RATIO	
					2 WEEKS	8 WEEKS	END OF TEST		*	8 WKS	*	12 WKS	WEEKS	20 WEEKS	22 WEEKS	
1. Anderson, Minn.	BBB BR	Nordman's	Both	18,000	2.0	4.0	7.0	Toms Hens	5.0	10.0			20.5 14.2	15.3	27.4	Not reported
2. Anderson, Minn.	BBW SF	Kolbs Superior	Both	3,000	6.0	8.0	13.0	Toms Hens	4.6	9.1			18.7 13.5	14.5	23.8	
3. Browning, Kentucky	BBB SF	Browning	Both	56,300	3.0	4.0	5.0	Toms Hens	4.8	9.5			20.3 13.7	14.6	26.5	
4. Elwell, Minn.	BBB SF	Elwell	Art.	3,000	6.0	7.0	7.0	Toms Hens	4.5	9.2			18.8 13.4	14.5	24.6	
5. Elwell, Minn.	BW SF	Elwell	Art.	4,000	.0	1.0	3.0	Toms Hens	4.2	8.3			17.6 12.2	13.2	23.0	
6. Farmers, Minn.	BBB SF	Hart-Schnieder and F&H	Art.	6,447	.0	1.0	2.0	Toms Hens	4.9	9.8			20.2 14.1	15.1	26.3	
7. Gozzi, Conn.	BBW SF	Guilford White	Both	14,000	7.0	17.0	17.0	Toms Hens	4.3	8.8			18.9 13.2	14.3	25.0	
8. Henning, Minn.	BBW SF	Henning Whites	Nat.	5,000	3.0	3.0	4.0	Toms Hens	4.2	8.4			18.2 13.3	13.2	23.9	
9. Kehl, Wisconsin	BBB SF	Kehls	Art.	1,800	6.0	9.0	14.0	Toms Hens	4.6	9.3			19.4 14.2	14.8	24.8	
10. Kimber, California	BBB SF	S. C. KB 33	Both	1,500	3.0	3.0	6.0	Toms Hens	4.8	9.7			20.7 13.9	14.9	27.6	
11. Land O' Lakes, Minn.	BBW SF	Land O' Lakes	Both	15,000	.0	1.0	7.0	Toms Hens	4.7	9.3			19.4 13.4	14.5	25.4	
12. Land O' Lakes, Minn.	BBB SF	Land O' Lakes	Nat.	30,000	1.0	3.0	4.0	Toms Hens	4.6	9.0			19.4 13.8	14.6	25.1	
13. Nicholas, California	BBW BR	Nicholas White	Both	8,000	4.0	8.0	9.0	Toms Hens	5.0	10.8			20.3 13.8	15.2	26.4	
14. Nicholas, California	BBB BR	Nicholas	Both	12,800	3.0	4.0	11.0	Toms Hens	5.1	10.3			20.5 14.1	15.3	26.5	
15. Northern, Minn.	BBB SF	Carlos Johnson	Both	3,000	1.0	2.0	4.0	Toms Hens	4.7	9.6			20.0 14.0	15.2	26.2	
16. Pinetree, Minn.	LW SF	River Rest	Nat.	1,100	1.0	1.0	1.0	Toms Hens	4.3	8.5			18.4 12.5	13.6	24.2	
Average All Entries					2.9	4.8	7.1	Toms Hens	4.7	9.4			19.4 13.5	14.5	25.5	
Average Bronze Entries					2.8	4.1	6.4	Toms Hens	4.8	9.6			20.0 13.9	14.9	26.2	
Average White Entries					3.0	5.6	8.0	Toms Hens	4.5	9.0			18.7 13.1	14.0	24.5	

\* Both sexes

## MINNESOTA CENTRAL RANDOM SAMPLE TURKEY TEST

EVISCERATED		OVER-ALL QUALITY % U. S. GRADE				% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT			
						A	B	C	FLESHING	FINISH	FEEDING OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
WEIGHT (lbs)	YIELD (%)	BREAST WIDTH INCHES	BODY DEPTH INCHES	KEEL LENGTH INCHES												
23.6	86.1	3.9	10.2	8.0	91.8	8.2	--	100.0	100.0	100.0					1. Anderson	
12.6	82.4	3.6	7.7	6.4	94.4	2.8	2.8	100.0	97.2	97.2						
20.0	84.3	3.8	10.3	7.5	67.5	22.5	10.0	100.0	97.5	100.0					2. Anderson	
11.7	80.8	3.5	7.8	6.4	86.5	8.1	5.4	100.0	100.0	100.0						
22.5	84.9	3.5	10.0	7.9	85.8	7.1	7.1	100.0	100.0	100.0					3. Browning	
12.0	81.7	3.6	7.7	6.6	90.7	9.3	--	100.0	100.0	100.0						
21.0	85.5	3.8	10.1	7.8	92.3	--	7.7	100.0	100.0	100.0					4. Elwell	
11.9	81.6	3.5	7.7	6.4	97.7	2.3	--	100.0	100.0	100.0						
19.5	84.9	3.4	9.8	7.6	83.0	12.8	4.2	100.0	100.0	100.0					5. Elwell	
10.7	80.9	3.3	7.5	6.3	90.9	6.8	2.3	100.0	100.0	100.0						
22.4	85.2	3.6	10.2	7.9	72.1	18.6	9.3	100.0	100.0	100.0					6. Farmers	
12.2	81.3	3.5	7.8	6.6	81.3	18.7	--	100.0	100.0	100.0						
21.4	85.6	4.2	10.0	7.5	79.4	14.7	5.9	100.0	100.0	100.0					7. Gozzi	
11.7	82.0	3.8	7.4	6.1	93.4	4.4	2.2	100.0	100.0	100.0						
20.4	85.3	3.8	9.7	7.5	89.2	5.4	5.4	100.0	100.0	100.0					8. Henning	
10.7	81.0	3.5	7.5	6.1	95.0	5.0	--	100.0	100.0	100.0						
21.4	86.2	4.2	10.0	7.5	70.3	18.9	10.8	100.0	91.9	100.0					9. Kehl	
12.2	82.5	3.9	7.4	6.2	92.8	4.8	2.4	100.0	97.6	95.2						
23.9	86.3	4.0	9.7	7.8	81.0	11.9	7.1	100.0	97.6	100.0					10. Kimber	
12.3	82.9	3.7	7.6	6.4	93.2	6.8	--	100.0	100.0	100.0						
21.5	84.7	3.5	10.3	7.9	79.4	10.3	10.3	100.0	94.9	100.0					11. Land O'Lakes	
11.7	80.4	3.3	7.7	6.4	87.5	12.5	--	100.0	100.0	100.0						
21.5	85.9	3.5	10.2	8.2	69.2	18.0	12.8	100.0	97.4	100.0					12. Land O'Lakes	
11.9	81.7	3.4	7.8	6.7	91.1	6.7	2.2	97.8	100.0	100.0						
22.5	85.1	3.9	10.2	7.8	88.0	8.0	4.0	100.0	100.0	100.0					13. Nicholas	
12.3	81.4	3.5	7.6	6.4	94.4	5.6	--	100.0	100.0	100.0						
22.7	85.6	3.9	10.4	8.0	63.4	24.4	12.2	100.0	100.0	100.0					14. Nicholas	
12.6	82.0	3.5	7.7	6.4	88.9	6.7	4.4	100.0	100.0	100.0						
22.5	85.7	4.2	10.0	7.6	78.0	12.2	9.8	98.0	100.0	100.0					15. Northern	
12.5	82.4	3.8	7.5	6.3	93.0	7.0	--	100.0	97.7	100.0						
20.5	84.7	3.6	10.0	7.9	94.0	2.0	4.0	100.0	100.0	100.0					16. Pinetree	
11.1	81.7	3.4	7.5	6.3	97.6	2.4	--	100.0	100.0	100.0						
21.7	85.4	3.8	10.1	7.8	80.8	11.9	7.3	99.9	98.8	100.0					Av. All Entries	
11.9	81.7	3.5	7.6	6.4	91.6	7.1	1.3	99.9	99.6	99.6						
22.4	85.6	3.9	10.1	7.8	79.6	12.3	8.1	100.0	98.4	100.0					Av. Bronze Entries	
12.2	81.9	3.6	7.6	6.4	90.8	8.2	1.0	100.0	99.2	99.2						
20.8	85.1	3.7	10.0	7.7	82.2	11.4	6.4	99.7	99.3	100.0					Av. White Entries	
11.4	81.4	3.5	7.6	6.3	92.7	5.5	1.8	99.7	100.0	100.0						

## MINNESOTA CENTRAL RANDOM SAMPLE TURKEY TEST

## Statistical Significance of Differences Between Entries

## Final Live Weight

Entry No.      Toms      10    1    3    14    13    6    15    11    12    7    9    4    16    8    2    5

Entry No.      Hens      14    1    15    13    6    10    9    3    12    4    11    2    7    16    8    5

## Eviscerated Weight

Entry No.      Toms      10    1    14    3    13    15    6    11    12    7    9    4    16    8    2    5

Entry No.      Hens      1    14    15    13    10    9    6    3    12    4    7    2    11    16    8    5

## Dressing Percentage

Entry No.      Toms      10    9    1    12    15    14    7    4    8    6    13    3    5    11    16    2

Entry No.      Hens      10    9    1    15    14    7    3    16    12    4    13    6    8    5    2    11

## Breast Width

Entry No.      Toms      9    7    15    10    1    14    13    4    2    8    6    16    3    12    11    5

Entry No.      Hens      9    7    15    10    3    1    13    2    14    4    8    6    12    16    11    5

## Body Depth

Entry No.      Toms      14    11    2    12    13    1    6    4    15    7    3    9    16    5    8    10

Entry No.      Hens      12    6    2    14    3    11    4    1    13    10    5    15    16    8    7    9

## Keel Length

Entry No.      Toms      12    1    14    3    11    6    16    10    13    4    15    5    7    2    8    9

Entry No.      Hens      12    6    3    1    11    13    14    4    2    10    15    16    5    9    8    7

## NEBRASKA RANDOM SAMPLE TURKEY TEST

## Statistical Significance of Differences Between Entries

## Final Live Weight

Entry No. Toms  
 6 15 3 18 10 2 12 16 14 1 13 11 5 8 17 9 4 19 7  
 \_\_\_\_\_

Entry No. Hens  
 14 15 3 13 8 11 6 16 12 10 18 5 2 1 17 9 4 7 19  
 \_\_\_\_\_

## Eviscerated Weight

Entry No. Toms  
 15 6 3 18 10 16 2 12 11 1 13 5 14 8 17 4 9 19 7  
 \_\_\_\_\_

Entry No. Hens  
 11 15 3 8 14 16 13 6 1 10 5 18 12 2 17 9 4 7 19  
 \_\_\_\_\_

## Dressing Percentage

Entry No. Toms  
 11 5 8 15 16 6 4 3 1 12 18 13 17 10 2 19 7 14 9  
 \_\_\_\_\_

Entry No. Hens  
 11 1 4 8 16 3 5 18 19 7 13 10 2 9 15 12 14 17 6  
 \_\_\_\_\_

## Breast Width

Entry No. Toms  
 11 15 8 16 3 12 5 4 1 18 10 13 6 14 2 17 19 7 9  
 \_\_\_\_\_

Entry No. Hens  
 11 3 8 16 14 13 15 18 4 12 10 5 1 17 19 6 9 2 7  
 \_\_\_\_\_

## Body Depth

Entry No. Toms  
 13 2 14 6 15 10 17 12 9 3 5 1 8 11 16 18 7 19 4  
 \_\_\_\_\_

Entry No. Hens  
 14 13 11 6 8 2 10 15 1 17 5 12 9 3 18 16 7 19 4  
 \_\_\_\_\_

## Keel Length

Entry No. Toms  
 2 10 6 16 15 1 18 12 13 3 5 9 17 14 7 11 8 4 19  
 \_\_\_\_\_

Entry No. Hens  
 10 2 13 14 12 15 16 1 6 5 17 18 3 11 8 9 7 19 4  
 \_\_\_\_\_

## NEBRASKA RANDOM SAMPLE TURKEY TEST

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						* FEED CONVER-SION RATIO
					2 WEEKS	8 WEEKS	END OF TEST		WKS	* 12 WK\$	WEEKS	22 WEEKS	WEEKS	26 WEEKS	
1. Browning, Kentucky	BBB SF	Browning	Both	56,300	Not reported	8.0	Toms Hens	9.2		14.8				26.9	Not reported
2. Central Mo, Missouri	BBB SF	Waite's King Size	Nat.	22,000		6.0	Toms Hens	9.2		14.9				27.6	
3. Gibbon, Nebraska	BBB SF	Gibbon Hy-Cross	Both	1,100		9.0	Toms Hens	9.5		15.5				28.3	
4. Gozzi, Conn.	BBW BR	Guilford White	Both	18,000		10.0	Toms Hens	7.9		13.3				24.8	
5. Hart's, Oregon	BBB BR	Hart-Schneider	Nat.	200		7.0	Toms Hens	9.3		14.9				26.5	
6. Hildebrand, Nebraska	BBB SF	Hildebrand	Nat.	1,000		7.0	Toms Hens	9.4		15.4				28.8	
7. Janes, Texas	BW BR	Janes Broad White	Both	15,000		6.0	Toms Hens	8.0		13.1				23.9	
8. Janssen, Michigan	BBB SF	JB 59-14	Both	900		11.0	Toms Hens	9.3		15.4				25.9	
9. Janssen, Michigan	BBW SF	JB 59-51	Both	200		10.0	Toms Hens	8.6		13.8				25.4	
10. Loomis, California	BBB	Loomis	Both	3,000		7.0	Toms Hens	9.4		15.1				27.7	
11. Menefee, Oregon	BBB SF	Menefee	Nat.	17,800		9.0	Toms Hens	9.5		15.4				26.7	
12. Miller, Canada	BBB SF	Ploen	Nat.	4,600		6.0	Toms Hens	9.4		15.1				27.5	
13. Nicholas, California	BBB BR	Nicholas	Both	12,800		11.0	Toms Hens	9.5		15.4				26.8	
14. Nicholas, California	BBW BR	Nicholas White	Both	8,000		13.0	Toms Hens	9.5		15.7				27.1	
15. Nichols, New Hamp.	BBB SF	Nichols 77	Both	2,000		7.0	Toms Hens	9.7		15.7				28.8	
16. Norbest, Utah	BBB SF	Norbest 400	Nat.			9.0	Toms Hens	9.5		15.4				27.4	
17. Segar, California	BBW SF	Segar's White	Both	12,000		7.0	Toms Hens	8.7		14.7				25.4	
18. T. G. Coop, California	BBB SF	501	Nat.			8.0	Toms Hens	9.2		15.0				27.8	
19. Exp. Sta., Ohio	White Control	Random-bred	Art.			5.0	Toms Hens	7.9		13.1				24.3	
Average All Entries						8.2	Toms Hens	9.1		14.8				26.7	3.62
Average Bronze Entries						8.1	Toms Hens	9.4		15.2				27.4	
Average White Entries						8.5	Toms Hens	8.4		13.9				25.1	

\* Both Sexes

## NEBRASKA RANDOM SAMPLE TURKEY TEST

EVISCERATED		BREAST WIDTH INCHES	BODY DEPTH INCHES	KEEL LENGTH INCHES	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT (lbs)	YIELD (%)				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
22.1	82.2	4.7	8.7	7.8	84.2	5.3	10.5							2.0	1. Browning
12.3	83.0	4.2	6.9	6.2	97.6	--	2.4								
22.5	81.5	4.3	9.0	8.1	78.3	8.7	13.0					2.0			2. Central Mo.
12.2	81.6	3.8	6.9	6.3	92.1	7.9	--								
23.3	82.3	4.8	8.8	7.7	77.1	2.9	20.0							2.0	3. Gibbon
12.7	82.5	4.4	6.8	6.1	97.6	2.4	--								
20.4	82.3	4.7	8.5	7.4	93.8	--	6.2								4. Gozzi
11.0	82.7	4.2	6.4	5.9	100.0	--	--								
22.0	83.1	4.7	8.8	7.7	80.5	7.3	12.2								5. Hart
12.3	82.4	4.2	6.8	6.1	95.0	2.5	2.5								
23.7	82.4	4.6	8.9	8.0	88.0	--	12.0								6. Hildebrand
12.4	80.6	3.9	7.0	6.2	92.7	4.9	2.4								
19.4	81.3	4.2	8.7	7.5	95.0	--	5.0								7. Janes
10.8	81.9	3.8	6.7	6.0	93.0	7.0	--								
21.5	83.0	4.8	8.7	7.4	76.4	11.8	11.8								8. Janssen
12.7	82.6	4.4	7.0	6.0	100.0	--	--								
20.4	80.2	4.2	8.8	7.6	87.5	2.5	10.0								9. Janssen
11.2	81.4	3.9	6.8	6.0	100.0	--	--								
22.7	81.9	4.6	8.9	8.0	94.6	2.7	2.7							2.0	10. Loomis
12.3	81.8	4.2	6.9	6.3	97.6	--	2.4								
22.3	83.6	5.0	8.7	7.5	94.6	2.7	2.7				4.0				11. Menefee
12.9	84.1	4.6	7.0	6.0	84.6	15.4	--								
22.5	82.0	4.7	8.8	7.8	71.4	2.4	26.2								12. Miller
12.2	81.0	4.2	6.8	6.2	95.3	4.7	--								
22.0	81.9	4.6	9.1	7.7	84.4	3.1	12.5								13. Nicholas
12.6	81.9	4.3	7.0	6.2	97.5	--	2.5								
21.9	81.1	4.6	9.0	7.6	82.1	--	17.9								14. Nicholas
12.7	80.7	4.3	7.1	6.2	100.0	--	--								
23.8	82.7	4.9	8.9	7.9	90.5	--	9.5								15. Nichols
12.8	81.4	4.3	6.9	6.2	95.1	4.9	--								
22.6	82.5	4.8	8.7	7.9	86.8	7.9	5.3								16. Norbest
12.7	82.6	4.4	6.7	6.2	95.0	5.0	--								
20.8	81.9	4.3	8.8	7.6	78.4	--	21.6								17. Segar
11.9	80.7	4.1	6.8	6.1	97.7	--	2.3								
22.8	82.0	4.7	8.7	7.8	92.3	2.6	5.1								18. T.G.Coop.
12.3	82.1	4.3	6.7	6.1	97.6	2.4	--								
19.7	81.3	4.3	8.6	7.4	100.0	--	--							2.0	19. Ohio Exp. Sta
10.7	81.9	4.0	6.7	5.9	97.9	2.1	--								
21.9	82.1	4.6	8.8	7.7	86.0	3.3	10.7				.3				Av. All Entries
12.1	82.0	4.2	6.8	6.1	96.1	3.1	.8								
22.6	82.4	4.7	8.8	7.8	84.4	4.5	11.1				.5				Av. Bronze Entries
12.5	82.1	4.2	6.9	6.2	95.2	3.8	1.0								
20.4	81.3	4.4	8.7	7.5	89.8	.5	9.7							.3	Av. White Entries
11.3	81.6	4.0	6.7	6.0	98.0	1.6	.4								

## NORTH DAKOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)					FEED CONVERSION RATIO
					2 WEEKS	8 WEEKS	END OF TEST		WKS	12 WKS	WEEKS	22 WEEKS	WEEKS	
1. Anderson, Mass.	BBWH BR	Block-buster	Art.	400	2.0	2.0	7.0	Toms Hens	9.9 7.5		21.8 14.8		24.9	Not reported
2. Browning, Kentucky	BBB SF	Browning	Both	56,300	2.0	2.0	7.0	Toms Hens	9.8 7.7		21.4 14.8		24.2	
3. Farmers, Minn.	BBB SF	F & H	Art.	6,447	1.0	1.0	11.0	Toms Hens	10.2 8.0		22.2 15.5		24.6	
4. Gozzi, Conn.	BBW SF	Guilford White	Both	10,000	12.0	12.0	16.0	Toms Hens	9.0 6.7		20.1 13.4		23.0	
5. Land O' Lakes, Minn.	BBB SF	Land O' Lakes 101	Nat.	30,000	4.0	4.0	18.0	Toms Hens	10.6 8.1		22.5 15.2		25.3	
6. Land O' Lakes, Minn.	BBW SF	Land O' Lakes 201	Both	15,000	3.0	4.0	11.0	Toms Hens	9.7 7.5		20.8 13.9		23.7	
7. Lyon's, Oregon	BBB BR	Lyon's 100%	Both	4,500	2.0	2.0	10.0	Toms Hens	9.8 7.6		21.4 15.0		23.9	
8. Nokota, N. Dakota	BBB SF	Nicholas	Both	3,300	2.0	2.0	11.0	Toms Hens	9.8 7.5		21.0 14.6		23.5	
9. Nicholas, California	BBB BR	Nicholas	Both	12,800	.0	1.0	14.0	Toms Hens	10.1 7.9		21.9 15.2		24.6	
10. Nicholas, California	BBW BR	Nicholas L. White	Both	8,000	3.0	3.0	11.0	Toms Hens	10.7 8.0		21.7 14.7		24.2	
11. Oppy's, N. Dakota	BBB SF	Hart-Schneider	Both	3,000	.0	.0	7.0	Toms Hens	9.9 7.6		21.6 14.6		24.1	
12. Segar's, California	BBW BR	Segar's White	Both	2,000	.0	1.0	6.0	Toms Hens	10.2 7.8		21.4 14.5		24.4	
13. Swift, Minn.	BBB SF	Nicholas	Both	10,000	2.0	4.0	19.0	Toms Hens	10.1 7.8		21.5 15.1		23.9	
14. Washore, Oregon	BBB SF	Hamilton S.C.300	Both	21,000	2.0	3.0	12.0	Toms Hens	9.6 7.6		21.2 14.9		23.6	
Average All Entries					2.5	2.9	11.4	Toms Hens	10.0 7.7		21.5 14.7		24.1	
Average Bronze Entries					1.7	2.1	12.1	Toms Hens	10.0 7.8		21.7 15.0		24.2	
Average White Entries					4.0	4.0	10.2	Toms Hens	9.9 7.5		21.1 14.3		24.0	

## NORTH DAKOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

EVISCERATED		BREAST WIDTH	BODY DEPTH	KEEL LENGTH	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
					A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDUL- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
WEIGHT (lbs)	YEILD (%)	INCHES	INCHES	INCHES											
19.3 11.5	77.7 77.6	7.1 4.7	8.7 7.1	7.2 6.1	86.3 97.8	13.7 2.2	-- --	100.0 100.0	94.1 100.0	100.0 100.0	Not reported				1. Anderson
18.9 11.6	78.0 78.4	6.7 4.1	8.8 7.5	7.8 6.6	88.4 96.0	9.3 2.0	2.3 2.0	100.0 100.0	97.7 100.0	100.0 100.0					2. Browning
19.0 12.1	77.0 77.7	6.7 4.0	8.9 7.7	7.8 6.7	61.2 97.6	34.7 2.4	4.1 --	100.0 100.0	85.7 100.0	100.0 100.0					3. Farmers
17.7 10.3	77.2 77.1	6.8 4.4	8.4 6.9	7.3 6.0	95.4 95.0	2.3 5.0	2.3 --	100.0 100.0	100.0 95.0	100.0 100.0					4. Gozzi
19.8 11.9	78.1 78.3	7.1 4.4	8.7 7.5	7.9 6.8	78.7 88.6	14.9 8.6	6.4 2.8	100.0 100.0	93.6 97.1	100.0 100.0					5. Land O'Lakes
18.2 10.8	76.8 77.6	6.6 4.0	8.9 7.4	7.6 6.5	84.9 95.3	13.2 --	1.9 4.7	100.0 100.0	100.0 100.0	98.1 100.0					6. Land O'Lakes
18.7 12.1	78.4 80.1	7.1 4.7	8.7 7.3	7.3 6.3	83.8 100.0	5.4 --	10.8 --	100.0 100.0	94.6 100.0	100.0 100.0					7. Lyon's
18.7 11.5	79.8 78.7	6.8 4.2	8.8 7.4	7.6 6.4	81.0 97.9	14.3 --	4.7 2.1	100.0 100.0	90.5 100.0	100.0 100.0					8. Nokota
18.5 12.1	75.5 80.0	6.9 4.4	8.8 7.4	7.6 6.5	75.4 95.1	16.4 4.9	8.2 --	100.0 100.0	91.8 100.0	98.0 100.0					9. Nicholas
18.8 11.4	77.6 77.5	6.8 4.3	8.6 7.4	7.4 6.4	87.5 93.9	7.5 --	5.0 6.1	100.0 100.0	95.0 100.0	100.0 100.0					10. Nicholas
19.1 11.7	79.3 79.8	6.8 4.2	8.7 7.4	7.7 6.6	88.2 100.0	7.9 --	3.9 --	100.0 100.0	98.0 100.0	100.0 100.0					11. Oppy's
18.6 11.2	76.1 77.4	6.8 4.2	8.7 7.4	7.4 6.4	91.1 100.0	3.6 --	5.3 --	100.0 100.0	94.6 100.0	100.0 100.0					12. Segar's
19.0 11.8	79.4 78.4	6.9 4.4	8.8 7.4	7.6 6.5	86.1 95.8	8.3 2.1	5.6 2.1	100.0 98.0	91.7 100.0	100.0 100.0					13. Swift
18.8 12.0	79.7 80.4	7.1 4.7	8.7 7.4	7.4 6.4	82.5 93.9	7.5 --	10.0 6.1	100.0 100.0	100.0 100.0	100.0 100.0					14. Washore
18.8 11.6	77.8 78.6	6.9 4.3	8.7 7.4	7.6 6.4	83.5 96.4	11.6 1.7	4.9 1.9	100.0 99.8	94.8 99.5	99.7 100.0					Av. All Entries
19.0 11.8	78.3 79.1	6.9 4.4	8.8 7.4	7.6 6.5	80.2 96.4	13.7 1.9	6.1 1.7	100.0 99.8	93.7 99.8	99.7 100.0					Av. Bronze Entries
18.5 11.1	77.1 77.5	6.8 4.3	8.7 7.2	7.4 6.3	88.9 96.4	8.2 1.4	2.9 2.2	100.0 100.0	96.7 99.1	99.6 100.0					Av. White Entries

## Statistical Significance of Differences Between Entries

## Final Live Weight

Toms

Entry No.	5	1	3	9	12	10	2	11	13	7	6	14	8	4
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Hens

Entry No.	3	5	9	13	7	14	2	1	10	11	8	12	6	4
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## Eviscerated Weight

Toms

Entry No.	5	1	11	13	3	2	14	10	8	7	12	9	6	4
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Hens

Entry No.	9	3	7	14	5	13	11	2	1	8	10	12	6	4
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## Dressing Percentage

Dressing percentage was reported by entries only, not by individual birds, therefore this method of analysis could not be applied.

## Breast Width

Toms

Entry No.	7	5	14	1	13	9	10	11	4	12	8	2	3	6
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Hens

Entry No.	7	14	1	4	9	5	13	10	11	8	12	2	3	6
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## Body Depth

Toms

Entry No.	6	3	9	2	8	13	5	11	1	14	12	7	10	4
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Hens

Entry No.	3	2	5	11	10	12	9	8	13	14	6	7	1	4
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## Keel Length

Toms

Entry No.	5	2	3	11	6	13	9	8	12	10	14	7	4	1
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Hens

Entry No.	5	3	2	11	13	9	6	10	14	8	12	7	1	4
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CENTRAL TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

Statistical Significance of Differences Between Entries

Final Live Weight



Eviscerated Weight



Dressing Percentage

Dressing percentage was reported by entries only, not by individual birds, therefore this method of analysis could not be applied.

Breast Width



Body Depth



Keel Length



## CENTRAL TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION RATIO *
					2 WEEKS	8 WEEKS	END OF TEST		WKS	12 WKS	WEEKS	22 WEEKS	WEEKS	26 WEEKS	
1. Anderson, Mass.	BBW BR	Block-buster	Art.	450	1.0	4.0	11.1	Toms Hens	8.2 6.8		24.8 16.5			30.8	3.50
2. Browning, Kentucky	BBB SF	Browning	Both	56,300	4.9	7.8	10.7	Toms Hens	8.4 6.8		23.6 16.0			29.2	3.92
3. Gozzi, Conn.	BBW SF	Guilford White	Both	24,000	2.8	6.5	11.2	Toms Hens	8.0 6.5		23.8 16.1			28.8	3.88
4. Martin, Penna.	BBB SF	Marcum	Art.	3,400	3.9	7.8	10.4	Toms Hens	7.6 6.3		23.1 15.6			27.5	3.43
5. Meadowbrook, California	BBB BR	Meadow-brook	Both	700	1.0	2.0	5.8	Toms Hens	9.4 7.5		25.6 17.8			31.6	3.69
6. Menefee, Oregon	BBB SF	Menefee	Nat.	16,000	2.0	3.0	5.9	Toms Hens	9.1 7.4		24.7 17.1			30.0	3.69
7. Miller, Canada	BBB SF	Ploen	Nat.	4,600	11.1	13.8	17.5	Toms Hens	8.4 6.8		23.2 16.2			28.6	3.88
8. Nicholas, California	BBB BR	Nicholas	Both	12,800	1.0	2.9	5.9	Toms Hens	9.2 7.2		24.4 16.8			30.3	3.82
9. Nicholas, California	LW BR	Nicholas White	Both	8,000	2.0	6.0	8.0	Toms Hens	9.6 7.4		26.0 17.0			31.7	3.82
10. Palmateer, Penna.	BBB SF	Rose-A-Linda	Both	10,500	1.9	2.9	7.8	Toms Hens	8.7 7.0		25.6 17.5			32.3	3.62
11. Shaw, Mass.	LW SF	Shaw's White	Both	500	1.9	3.8	6.7	Toms Hens	7.7 6.4		22.8 15.5			28.5	3.64
12. Shearer, Penna.	BBB SF	Shearer	Art.	3,000	1.0	2.0	6.9	Toms Hens	8.3 6.7		24.4 16.5			29.3	3.54
13. Shelhamer, New York	W. Cross SF	"Eva" Crossbred	Art.	1,500	1.9	4.8	6.7	Toms Hens	7.4 6.1		21.9 14.7			26.9	3.80
14. Thompson, Arkansas	LW BR	Thompson Broadwhite	Both	3,500	6.4	11.0	13.7	Toms Hens	7.6 6.3		22.1 15.2			27.4	3.66
15. Wila, Penna.	BBB SF	Marcum	Art.	2,200	1.3	2.7	5.3	Toms Hens	7.9 6.4		23.7 16.0			28.8	3.54
16. Wilford, Ohio	BBW BR	Wilford 4C-94	Both	2,400	.0	2.9	7.8	Toms Hens	8.1 6.3		21.9 15.1			26.9	3.83
17. Exp. Sta. Ohio	LW Control	Random-bred	Art.		1.9	5.7	7.5	Toms Hens	7.4 6.0		21.6 14.3			26.2	3.66
Average All Entries					2.7	5.3	8.8	Toms Hens	8.3 6.7		23.7 16.1			29.1	3.70
Average Bronze Entries					2.2	5.6	9.1	Toms Hens	8.6 6.9		24.3 16.7			29.9	3.68
Average White Entries					3.1	5.0	8.5	Toms Hens	8.0 6.5		23.1 15.5			28.4	3.72

\*Both sexes

## CENTRAL TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

EVISCERATED		BREAST WIDTH (inches)	BODY DEPTH (inches)	KEEL LENGTH (inches)	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT (lbs)	YIELD (%)				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
25.0 12.9	81.1 78.3	6.5 5.6	8.7 7.0	7.3 6.2	97.9 100.0	2.1 --	--	97.9 100.0	100.0 100.0	100.0 100.0					1. Anderson
23.6 12.6	80.8 78.5	5.7 5.0	9.1 7.1	7.9 6.4	95.1 87.8	4.9 12.2	--	100.0 91.8	100.0 98.0	95.1 93.9					2. Browning
23.5 12.6	81.5 78.4	6.1 5.6	8.6 7.0	7.5 6.2	100.0 97.9	-- 2.1	--	100.0 97.9	100.0 100.0	100.0 100.0					3. Gozzi
22.9 12.4	83.4 79.3	6.4 5.7	8.4 6.8	7.6 6.1	68.0 88.4	32.0 11.6	--	96.0 95.3	100.0 100.0	72.0 95.3					4. Martin
26.3 14.1	83.4 79.5	6.5 5.7	8.9 7.1	7.9 6.5	88.9 98.1	11.1 1.9	--	100.0 100.0	100.0 100.0	88.9 98.1					5. Meadowbrook
24.9 13.6	83.2 79.7	6.4 5.9	8.6 6.9	7.6 6.4	86.0 100.0	14.0 --	--	100.0 100.0	100.0 100.0	86.0 100.0					6. Menefee
23.3 12.8	81.2 78.9	5.7 5.0	9.0 7.2	7.7 6.4	58.1 97.8	41.9 2.2	--	93.0 100.0	100.0 100.0	65.1 97.8					7. Miller
24.6 13.2	81.3 78.3	5.8 5.4	9.1 7.2	7.8 6.5	97.9 100.0	2.1 --	--	97.9 100.0	100.0 100.0	100.0 100.0					8. Nicholas
25.7 13.1	81.0 77.2	6.0 5.3	9.1 7.1	7.8 6.3	100.0 97.8	-- 2.2	--	100.0 97.8	100.0 100.0	100.0 100.0					9. Nicholas
26.1 14.0	80.9 79.7	6.6 5.9	8.8 7.0	7.8 6.4	88.4 100.0	11.6 --	--	100.0 100.0	100.0 100.0	88.4 100.0					10. Palmateer
23.0 12.2	80.7 78.5	5.9 5.3	8.6 6.9	7.4 6.1	100.0 98.0	-- 2.0	--	100.0 98.0	100.0 98.0	100.0 100.0					11. Shaw
24.4 13.5	83.4 81.5	6.8 6.0	8.3 7.0	7.5 6.4	92.2 100.0	7.8 --	--	98.0 100.0	98.0 100.0	96.1 100.0					12. Shearer
21.7 11.6	80.8 78.4	5.9 5.3	8.4 6.8	7.3 6.1	100.0 98.0	-- 2.0	--	100.0 98.0	100.0 100.0	100.0 100.0					13. Shelhamer
22.1 11.7	80.4 76.9	5.7 5.1	8.6 6.9	7.5 6.1	100.0 100.0	-- --	--	100.0 100.0	100.0 100.0	100.0 100.0					14. Thompson
24.1 12.9	83.6 80.6	6.8 6.0	8.4 6.9	7.7 6.2	89.3 97.7	10.7 2.3	--	100.0 97.7	100.0 100.0	89.3 100.0					15. Wila
21.9 11.8	81.3 78.4	5.9 5.5	8.6 6.9	7.5 6.2	100.0 98.0	-- 2.0	--	100.0 98.0	100.0 100.0	100.0 100.0					16. Wilford
20.9 11.0	79.7 76.9	5.1 4.6	8.8 7.0	7.4 6.1	97.9 100.0	2.1 --	--	97.9 100.0	100.0 100.0	100.0 100.0					17. O. Exp. Sta.
23.8 12.7	81.6 78.8	6.1 5.5	8.7 7.0	7.6 6.3	92.7 97.7	7.3 2.3	--	98.9 98.5	99.9 99.8	94.0 99.0					Av. All Entries
24.6 13.3	82.3 79.6	6.3 5.6	8.8 7.0	7.7 6.4	85.8 96.7	14.2 3.3	--	98.4 98.4	99.7 99.8	87.7 98.1					Av. Bronze Entries
23.0 12.1	80.8 77.9	5.9 5.3	8.7 6.9	7.5 6.2	99.5 98.7	.5 1.3	--	99.5 98.7	100.0 99.7	100.0 100.0					Av. White Entries

## TEXAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	KIND OF STOCK	STRAIN OR TRADE NAME	MATING PROCEDURE	NUMBER OF HENS IN FLOCKS	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION RATIO
					2 WEEKS	8 WEEKS	END OF TEST		WKS	12 WKS	WEEKS	22 WEEKS	WEEKS	26 WEEKS	
1. Anderson, Mass.	BBB BR	Anderson's Art.		350	8.0	11.0	13.0	Toms Hens	9.5 7.8		17.3			28.5	3.4 3.2
2. Barnett's, Texas	BBB SF	Meadow-brook	Both	3,200	6.0	7.0	9.0	Toms Hens	8.6 7.0		15.0			26.1	3.3 3.5
3. Browning, Kentucky	BBB SF	Browning	Both	56,300	6.0	6.0	8.0	Toms Hens	8.3 7.0		14.9			26.1	3.5 3.5
4. Cent. Mo., Missouri	BBB SF	Waite's Kingsize	Nat.	23,000	6.0	6.0	7.0	Toms Hens	8.8 6.8		15.2			26.4	3.5 3.5
5. Gozzi, Conn.	BBW SF	Guilford White	Both	10,000	22.0	23.0	26.0	Toms Hens	8.0 6.9		14.5			24.5	3.5 3.3
6. Hart's, Oregon	BBB BR	Hart-Schneider	Nat.	3,500	2.0	2.0	2.0	Toms Hens	8.9 7.2		15.1			25.9	3.5 3.5
7. Janes, Texas	BBB SF	Janes Meat Str.	Both	8,000	7.0	7.0	9.0	Toms Hens	8.4 6.7		15.4			26.4	3.3 3.3
8. Janes, Texas	BBB SF	Janes Tex Special	Both	12,000	8.0	10.0	13.0	Toms Hens	8.1 6.9		14.4			24.8	3.4 3.5
9. Janes, Texas	BBW SF	Janes White	Both	13,000	2.0	3.0	8.0	Toms Hens	7.7 6.1		12.4			22.3	3.8 3.5
10. Kent, Texas	BBB SF	Conyer's	Both	7,000	10.0	13.0	14.0	Toms Hens	8.8 6.9		15.1			27.2	3.4 3.4
11. Kimber, California	BBB SF	KB33	Both	2,200	10.0	11.0	11.0	Toms Hens	8.6 6.8		14.8			26.8	3.3 3.3
12. Meadow-brook, Calif.	BBB SF	Meadow-brook	Both	2,200	3.0	3.0	3.0	Toms Hens	9.1 7.6		16.0			26.5	3.3 3.3
13. Menefee, Oregon	BBB SF	Menefee	Nat.	17,800	10.0	12.0	20.0	Toms Hens	9.3 7.7		15.6			26.1	3.7 3.5
14. Nicholas, California	BBB BR	Nicholas	Both	12,800	7.0	7.0	7.0	Toms Hens	9.3 7.4		15.5			27.2	3.4 3.5
15. Nicholas, California	BBW BR	Nicholas L. White	Both	8,000	4.0	10.0	12.0	Toms Hens	8.9 7.1		14.2			26.8	3.7 3.5
16. River Rest, Oklahoma	BBW BR	River Rest	Nat.	4,000	--	7.0	8.0	Toms Hens	7.5 6.2		12.8			25.1	3.6 3.5
17. Segar's, California	BBW BR	Segar's White	Both	12,000	5.0	7.0	9.0	Toms Hens	8.0 6.4		13.7			24.8	3.9 3.5
18. Thompson, Arkansas	BBW BR	Thompson's Broadwhite	Both	3,500	14.0	17.0	17.0	Toms Hens	8.4 6.6		13.5			25.1	3.7 3.4
19. Wallis, Texas	BBB BR	Wallis	Nat.	1,000	11.0	11.0	11.0	Toms Hens	8.8 7.2		15.7			26.6	3.2 3.6
20. Wallis, Texas	BBW BR	Wallis White	Both	500	4.0	6.0	7.0	Toms Hens	8.1 6.3		12.8			24.7	3.5 3.5
21. Wilford, Ohio	BBW BR	Wilford 4C-94	Both	11,300	3.0	4.0	6.0	Toms Hens	7.4 6.4		13.0			22.8	3.6 3.3
Average All Entries					7.0	8.7	10.5	Toms Hens	8.5 6.9		14.6			25.8	3.5 3.4
Av. Bronze Entries					7.2	8.2	9.8	Toms Hens	8.8 7.1		15.4			26.5	3.4 3.4
Av. White Entries					6.8	9.6	11.6	Toms Hens	8.0 6.5		13.3			24.5	3.7 3.4

## TEXAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

EVISCERATED		BREAST WIDTH (inches)	BODY DEPTH (inches)	KEEL LENGTH (inches)	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT (lbs)	YIELD (%)				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
23.8	83.5	5.0	9.1	7.5	90.7	9.3	--	100.0	100.0	90.7	2.0	--	6.0	--	1. Anderson
14.1	81.0	5.6	7.7	6.4	97.7	2.3	--	100.0	100.0	97.7	--	--	--	--	
22.0	84.6	4.7	9.3	7.6	93.0	7.0	--	100.0	100.0	93.0	--	--	2.0	--	2. Barnett's
12.2	81.5	5.1	7.7	6.3	91.5	8.5	--	100.0	100.0	91.5	2.0	--	2.0	--	
21.9	83.9	4.3	9.5	7.9	81.8	18.2	--	97.7	100.0	88.6	--	2.0	2.0	2.0	3. Browning
12.2	81.7	5.0	7.8	6.4	97.9	2.1	--	100.0	100.0	97.9	2.0	--	--	--	
22.4	84.7	3.9	9.7	7.9	80.4	17.4	2.2	91.3	100.0	95.7	--	--	2.0	6.0	4. Central Mo.
12.2	80.3	4.6	8.1	6.5	89.4	10.6	--	97.9	97.9	89.4	2.0	--	--	--	
20.6	84.2	4.7	8.7	7.3	100.0	--	--	100.0	100.0	100.0	--	--	2.0	--	5. Gozzi
11.8	81.3	5.3	7.5	6.2	100.0	--	--	100.0	100.0	100.0	2.0	--	--	--	
22.1	85.2	4.4	9.1	7.6	92.2	7.8	--	100.0	100.0	92.2	--	--	4.0	--	6. Hart's
12.3	81.3	4.9	7.8	6.4	93.6	6.4	--	100.0	100.0	93.6	--	--	--	--	
22.2	84.1	4.7	9.7	7.6	83.7	16.3	--	100.0	100.0	88.4	--	--	6.0	4.0	7. Janes
12.4	80.5	5.0	7.9	6.4	93.8	6.2	--	100.0	100.0	93.8	--	--	--	--	
20.6	83.1	3.9	9.4	7.5	84.5	11.1	4.4	100.0	97.8	95.6	--	6.0	2.0	6.0	8. Janes
11.8	81.8	4.7	7.7	6.3	97.6	2.4	--	100.0	97.6	97.6	2.0	--	2.0	--	
18.6	83.4	3.8	8.9	7.2	97.6	2.4	--	100.0	100.0	100.0	--	--	2.0	2.0	9. Janes
10.0	80.8	4.4	7.6	6.0	92.0	8.0	--	100.0	94.0	100.0	--	2.0	--	--	
22.6	83.0	4.2	9.5	7.8	87.2	12.8	--	100.0	100.0	92.3	--	2.0	--	2.0	10. Kent
12.3	81.4	4.8	7.9	6.2	91.3	8.7	--	100.0	100.0	91.3	--	--	--	--	
22.4	83.5	4.9	9.6	7.6	92.9	7.1	--	100.0	100.0	92.9	--	--	--	--	11. Kimber
12.2	82.4	5.0	7.7	6.3	95.7	4.3	--	100.0	100.0	95.7	--	--	--	--	
22.5	84.9	4.7	9.0	7.4	91.7	6.3	2.1	100.0	100.0	93.8	--	--	4.0	2.0	12. Meadowbrook
13.2	82.4	5.3	7.8	6.4	95.9	4.1	--	100.0	98.0	95.9	--	--	--	--	
21.9	83.9	4.9	8.9	7.3	100.0	--	--	100.0	100.0	100.0	2.0	--	32.0	--	13. Menefee
12.8	82.4	5.6	7.8	6.4	92.5	5.0	2.5	100.0	95.0	97.5	4.0	--	--	--	
22.8	83.8	5.1	9.8	7.6	100.0	--	--	100.0	100.0	100.0	--	--	8.0	--	14. Nicholas
12.8	82.3	5.1	7.8	6.2	98.0	2.0	--	100.0	100.0	98.0	--	--	--	--	
22.3	83.3	4.5	9.2	7.5	100.0	--	--	100.0	100.0	100.0	--	--	2.0	--	15. Nicholas
11.6	82.3	4.8	7.7	6.3	100.0	--	--	100.0	100.0	100.0	--	--	--	--	
21.0	83.8	4.0	9.0	7.6	97.6	--	2.4	100.0	100.0	100.0	--	--	--	2.0	16. River Rest
10.5	82.1	4.6	7.6	6.1	94.0	6.0	--	100.0	94.0	100.0	--	--	--	--	
20.6	83.1	3.9	9.1	7.3	90.7	9.3	--	97.7	97.7	100.0	--	--	2.0	4.0	17. Segar
11.2	81.5	4.4	7.7	6.1	97.8	2.2	--	100.0	100.0	100.0	2.0	2.0	--	--	
20.9	83.5	4.4	9.0	7.3	100.0	--	--	100.0	100.0	100.0	--	--	2.0	--	18. Thompson
10.8	80.4	4.9	7.4	6.0	97.9	--	2.1	100.0	100.0	100.0	--	--	--	--	
22.2	83.3	4.1	9.9	8.0	88.6	11.4	--	100.0	100.0	93.2	--	2.0	2.0	2.0	19. Wallis
12.8	81.6	5.0	7.8	6.6	88.9	11.1	--	100.0	100.0	93.3	--	--	--	4.0	
20.7	83.8	4.1	9.0	7.3	97.8	--	2.2	100.0	100.0	100.0	--	--	2.0	2.0	20. Wallis
10.3	81.0	4.8	7.4	5.9	95.7	4.3	--	100.0	97.9	100.0	2.0	2.0	--	--	
19.0	83.5	4.4	8.7	7.2	100.0	--	--	100.0	100.0	100.0	--	--	2.0	--	21. Wilford
10.6	81.8	4.8	7.3	6.0	94.1	5.9	--	98.0	94.1	100.0	--	--	--	--	
21.6	83.8	4.4	9.3	7.5	92.6	6.7	.7	99.3	99.8	95.9	.2	.6	4.0	1.6	Av. All Entries
11.9	81.5	4.9	7.7	6.2	95.0	4.8	.2	99.8	98.5	96.8	.9	.3	.2	.2	
22.2	84.0	4.5	9.4	7.6	89.7	9.6	.7	99.1	99.8	93.5	.3	.9	5.4	1.9	Av. Bronze Entries
12.5	81.6	5.1	7.8	6.4	94.1	5.7	.2	99.8	99.2	94.8	.9	.0	.3	.3	
20.4	83.5	4.2	9.0	7.3	97.8	1.6	.6	99.7	99.7	100.0	.0	.0	1.8	1.3	Av. White Entries
10.8	81.4	4.8	7.5	6.1	96.3	3.4	.3	99.7	97.4	100.0	.8	.8	.0	.0	

## TEXAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

## Statistical Significance of Differences Between Entries

## Final Live Weight

Entry No.      Toms      1    10    14    11    15    19    12    4    7    3    2    13    6    16    18    17    8    20    5    21    9

Entry No.      Hens      1    12    19    13    14    7    4    10    6    2    3    11    5    8    15    17    18    21    16    20    9

## Eviscerated Weight

Entry No.      Toms      1    14    10    12    11    4    15    19    7    6    2    3    13    16    18    20    17    5    8    21    9

Entry No.      Hens      1    12    13    19    14    7    10    6    2    11    3    4    5    8    15    17    18    21    16    20    9

## Dressing Percentage

Entry No.      Toms      6    12    4    2    5    7    3    13    14    16    20    11    1    18    21    9    19    15    8    17    10

Entry No.      Hens      11    13    12    14    15    16    21    8    3    19    17    2    10    6    5    20    1    9    7    18    4

## Breast Width

Entry No.      Toms      14    1    11    13    2    12    5    7    15    21    6    18    3    10    19    20    16    8    4    17    9

Entry No.      Hens      1    13    12    5    2    14    19    7    11    3    18    6    21    15    20    10    8    4    16    9    17

## Body Depth

Entry No.      Toms      19    14    4    7    11    3    10    8    2    15    6    17    1    12    16    18    20    9    13    5    21

Entry No.      Hens      4    10    7    3    13    14    19    12    6    8    1    2    3    15    11    9    16    5    20    18    21

## Keel Length

Entry No.      Toms      19    4    3    10    16    6    11    7    14    2    8    1    15    12    17    20    18    13    5    9    21

Entry No.      Hens      19    4    13    1    3    6    12    7    8    2    11    15    10    5    14    16    17    21    18    9    20



115

15 123°  
20° 8°  
2